

AMENDMENTS TO THE CLAIMS

1. (Cancelled)

2. (Currently Amended) A process for producing CMP-N-acetylneuraminic acid (CMP-NeuAc), which comprises adding 2-100 mg/ml N-acetylglucosamine-6-phosphate 2-epimerase (GlcNAc-6P 2-epimerase) and 2-100 mg/ml N-acetylneuraminic acid lyase (NeuAc lyase) to a reaction system containing N-acetylglucosamine (GlcNAc) and pyruvate, to thereby synthesize N-acetylneuraminic acid (NeuAc), and subsequently adding, to the resultant reaction system, cytidine 5'-monophosphate (CMP), 1-20% (w/v) yeast cells, and cytidine 5'-monophosphate N-acetylneuraminic acid synthase (CMP-NeuAc synthase), to thereby synthesize CMP-N-acetylneuraminic acid (CMP-NeuAc).

3-4. (Cancelled)

5. (Currently Amended) A process for producing CMP-N-acetylneuraminic acid (CMP-NeuAc), which comprises adding 1-20% (w/v) yeast cells, 2-100 mg/ml N-acetylglucosamine-6-phosphate 2-epimerase (GlcNAc-6P 2-epimerase), 2-100 mg/ml N-acetylneuraminic acid synthase (NeuAc synthase), and 2-100 mg/ml CMP-N-acetylneuraminic acid synthase (CMP-NeuAc synthase) to a reaction system containing N-acetylglucosamine (GlcNAc) and cytidine 5'-monophosphate (CMP), and inducing reaction of the mixture.

6-7. (Cancelled)

8. (Previously Presented) The process according to claim 2, further comprising adding an inorganic phosphoric acid, magnesium, and an energy source to the resultant reaction system.

9. (Previously Presented) The process according to claim 5, further comprising adding an inorganic phosphoric acid, magnesium, and an energy source to the reaction system.